

## WATER DISCHARGE REQUIREMENTS

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### **LANL MASTER CONSTRUCTION SPECIFICATION**

When editing to suit project, author shall add job-specific requirements and delete only those portions that in no way apply to the activity (e.g., a component that does not apply). To seek a variance from applicable requirements, contact the discipline POC.

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#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Requirements of Contractor and LANL Construction Inspector when there is a planned or accidental discharge of water not covered by LANLs NPDES permit.

##### 1.2 DEFINITION

- A. Discharge: Release of water to environment or sanitary sewer system due to an accidental spill or planned construction activity, e.g., flushing, piping disinfection, chemical water treatment of piping systems, hydrostatic piping tests, etc.
- B. Best Management Practices (BMP): Schedules of activities, prohibition of practices, maintenance procedures, and other management practices to prevent or reduce pollution of waters of the United States. BMP's also include treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. Physical practices to control facility site runoff can be, but are not limited to; silt fences, straw bales, dikes, berms, wattles, ground cover, reduced discharge rates, armoring, or other such methods emplaced to eliminate erosion or transport by water of soil or other contaminants.

##### 1.3 CONTRACTOR REQUIREMENTS

- A. Water discharged to environment:
  - 1. Chlorinated water used for disinfection shall be dechlorinated with neutralizing agent prior to discharge. Water discharged to a watercourse shall have a total chlorine concentration less than 11  $\mu$  /L (parts per billion). This value is based on recent (1999) changes in the New Mexico stream standards that dropped chlorine limit from 1 ppm (part per million) to 11 ppb. If discharge is not to a watercourse total chlorine concentration shall be reduced to less than 1 ppm.
  - 2. For discharge of less than 5,000 gallons of water, notify LANL Construction Inspector at least 48 hours (2 working days) in advance of planned discharge.
  - 3. For discharge of 5,000 gallons or more of water, notify LANL Construction Inspector at least 4 working days in advance of planned discharge.

- B. Notify LANL Construction Inspector prior to discharging into sanitary sewer system. Discharge into sanitary sewer system shall be properly characterized through LANL waste profile form (WPF) process and shall meet the Sanitary Wastewater Systems Consolidation (SWSC) Plant waste acceptance criteria (WAC). Chlorinated water used for disinfection shall be dechlorinated with neutralizing agent prior to discharge. Water discharged to sanitary sewer system shall have a total chlorine concentration of less than 3 mg/L (3 ppm).
- C. Employ Best Management Practices (BMPs) to prevent erosion from discharge of water.
- D. Notify LANL Construction Inspector immediately in the event of any accidental discharge.

#### 1.4 LANL CONSTRUCTION INSPECTOR REQUIREMENTS

- A. Water discharged to the environment:
  - 1. For discharge of less than 1,000 gallons of water, LANL Construction Inspector will notify ESH-18 (665-2014) 24 hours (1 working day) prior to discharge and keep a written record of each discharge. Records will be submitted to ESH-18 each year by September 15th, or prior to final closeout of project.
  - 2. For discharge of 1,000 gallons or more of water, but less than 5,000 gallons of water, notify ESH-18 (665-2014) at least 48 hours (2 working days) in advance for approval of planned discharge. LANL Construction Inspector will keep a written record of each discharge. Records will be submitted to ESH-18 each year by September 15th, or prior to final closeout of project.
  - 3. For discharge of 5,000 gallons or more of water, notify ESH-18 (665-2014) at least 72 hours (3 working days) in advance for approval of planned discharge. LANL Construction Inspector will keep a written record of each discharge. Records will be submitted to ESH-18 each year by September 15th, or prior to final closeout of project.
  - 4. Complete and return attached form "General Notice of Intent (NOI) Discharge Record" to ESH-18. (Attachment 1)
- B. Discharge into sanitary sewer system shall be properly characterized through LANL waste profile form (WPF) process and shall meet the SWSC Plant waste acceptance criteria (WAC). Chlorinated water used for disinfection shall be dechlorinated prior to discharge. Water discharged to sanitary sewer system shall have a total chlorine concentration of less than 3 mg/L (3 ppm). Consult with ESH-18.
- C. Notify Sanitary Wastewater Systems Consolidation (SWSC) Plant Supervisor (665-7855) at least 48 hours (2 working days) in advance for approval of planned discharge into sanitary waste water system.
- D. Notify ESH-18 (665-2014) immediately in the event of any accidental discharge.

#### PART 2 PRODUCTS

Not applicable.

PART 3 EXECUTION

Not applicable.

END OF SECTION

## SECTION 01325

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## GENERAL NOI DISCHARGE RECORD

<b>LOCATION: TA:</b> _____		<b>BLDG:</b> _____	
<b>FIRE HYDRANT # or PIPE:</b> _____			
<b>USER GROUP:</b> _____		<b>CONTACT PERSON:</b> _____	
<b>PHONE:</b> _____		<b>PAGER:</b> _____	
<b>PERSON CONDUCTING FIRE PROTECTION ACTIVITY:</b> _____			
<b>DATE and TIME of DISCHARGE:</b> _____ / _____			
<b>DURATION of DISCHARGE:</b> _____ / _____			
<b>ESH-18 CONTACT:</b> <u>Harvey Decker.</u> Phone: 5-2014, Fax: 5-9344, E-mail: <a href="mailto:hld@lanl.gov">hld@lanl.gov</a>			
<b>DESCRIPTION of DISCHARGE:</b> _____			
<b>CANYON AFFECTED:</b> _____			
<b>SAMPLES TAKEN:</b>		<b>YES:</b> _____	<b>NO:</b> _____
<b>COMMENTS:</b> _____			
<b>REVIEWED BY:</b> _____		<b>DATE:</b> _____	
ESH-18			

Revised 6/14/94